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1 [Multimedia simplification for optimized MMS synthesis](#)



Wei-Qi Yan, Mohan S. Kankanhalli

February 2007 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 3 Issue 1

Publisher: ACM

Full text available: [Pdf](#) (9.63 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 202, Citation Count: 0

We propose a novel transcoding technique called *multimedia simplification* which is based on experiential sampling. Multimedia simplification helps optimize the synthesis of MMS (multimedia messaging service) messages for mobile phones. Transcoding ...

Keywords: MMS synthesis, Multimedia simplification, experiential sampling, home care monitoring, hypermedia coherence, mobile phone, soccer video

2 Two algorithms for automatic document page layout



João Batista S. de Oliveira

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (564.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 40, Citation Count: 0

This paper describes two approaches to the problem of automatically placing document items on pages of some output device. Both solutions partition the page into regions where each item is to be placed, but work on different input data according to the ...

Keyw ords: automatic page layout, packing, placement algorithms

3 The design and performance of a pluggable protocols framework for real-time distributed object computing middleware

Carlos O'Ryan, Fred Kuhns, Douglas C. Schmidt, Ossama Othman, Jeff Parsons

April 2000 Middleware '00: IFIP/ACM International Conference on Distributed systems platforms

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (231.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 63, Citation Count: 13

To be an effective platform for performance-sensitive real-time and embedded applications, off-the-shelf CORBA middleware must preserve the communication-layer quality of service (QoS) properties of applications end-to-end. However, the standard CORBA ...

4 Creating non-decomposable stream bundles in multimedia web services using uSMIL



Naren Kodali, Csilla Farkas, Duminda Wijesekera

October 2004 SWS '04: Proceedings of the 2004 workshop on Secure web service

Publisher: ACM

Full text available: Pdf (367.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Citation Count: 0

Technical advances in networks, operating systems and web based services are enabling new web-based services such as audiovisual surveillance, monitoring and recording of unfolding real world scenes. Leaving room to alter the chronology of such real-world ...

Keywords: evidence fabrication, integrity, semantics, synchronized multimedia

5 Content publishing framework for interactive paper documents



Moira C. Norrie, Alexios Palinginis, Beat Signer

November 2005 DocEng '05: Proceedings of the 2005 ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (721.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 61, Citation Count: 1

Paper persists as an important medium for documents and this has motivated the development of new technologies for interactive paper that enable actions on paper to be linked to digital actions. A major issue that remains is how to integrate these technologies ...

Keywords: interactive paper, publishing framework

6 A method for risk mitigation during the requirements phase for multimedia software systems



Kohl Witmer, Rhoda Baggs Koss, Tamas Kasza

October 2006 SI GDOC '06: Proceedings of the 24th annual ACM international conference on Design of communication

Publisher: ACM

Full text available: Pdf (753.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 60, Citation Count: 0

The Multimedia Requirements Method for Easy Risk Mitigation (MURMER) is proposed. This method represents requirements for multimedia document types containing audio, video, image or textual data. MURMER aims to increase the overall transparency and reliability ...

Keywords: multimedia requirements, risk mitigation

7 Cache performance for multimedia applications



Nathan T. Slingerland, Alan Jay Smith

June ICS '01: Proceedings of the 15th international conference on Supercomputing 2001

Publisher: ACM

Full text available: Pdf (642.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 119, Citation Count: 14

The caching behavior of multimedia applications has been described as having high instruction reference locality within small loops, very large working sets, and poor data cache performance due to non-locality of data references. Despite this, there ...

Keywords: CPU caches, cache, mulitmedia, simulation, trace driven simulation

8 Adaptive disk scheduling in a multimedia DBMS



Ketil Lund, Vera Goebel

November MULTIMEDIA '03: Proceedings of the eleventh ACM international 2003 conference on Multimedia

Publisher: ACM

Full text available: Pdf (326.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 71, Citation Count: 2

In this paper, we present APEX, a disk scheduling framework with QoS support, designed for environments with highly varying disk bandwidth usage. In particular, we focus on a Learning-on-Demand scenario supported by a multimedia database management system, ...

Keywords: MMDBMS, QoS, disk scheduling

9 Trustworthy 100-year digital objects: durable encoding for when it's too late to ask



H. M. Gladney, R. A. Lorie

July ACM Transactions on Information Systems (TOIS), Volume 23 Issue 3 2005

Publisher: ACM

Full text available: Pdf (1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 116, Citation Count: 2

How can an author store digital information so that it will be reliably intelligible, even years later when he or she is no longer available to answer questions? Methods that *might* work are not good enough; what is preserved today should be reliably ...

Keywords: Long-term digital preservation, encoding

10 Multimedia meets computer graphics in SMIL2.0: a time model for the web



Patrick Schmitz

May WWW '02: Proceedings of the 11th international conference on World Wide Web
2002 Web

Publisher: ACM

Full text available: Pdf (253.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 50, Citation Count: 3

Multimedia scheduling models provide a rich variety of tools for managing the synchronization of media like video and audio, but generally have an inflexible model for time itself. In contrast, modern animation models in the computer graphics community ...

Keywords: animation, multimedia, synchronization, timing

11 Synchronization in the MAEStro multimedia authoring environment



George D. Drapeau

September MULTIMEDIA '93: Proceedings of the first ACM international conference
1993 on Multimedia

Publisher: ACM

Full text available: Pdf (65.56 KB), Ps (87.29 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 26, Citation Count: 3

12 Applying caT's programmable browsing semantics to specify world-wide web documents that reflect place, time, reader, and community



Richard Furuta, Jin-Cheon Na

November DocEng '02: Proceedings of the 2002 ACM symposium on Document
2002 engineering

Publisher: ACM

Full text available: Pdf (947.45 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 13, Citation Count: 3

In this paper we discuss application of caT, which extends the Trellis Petri-net-based model of document/hypertext, towards specification of Web-browsable documents that respond to their reader's characteristics, browsing activities, use environment, ...

Keywords: Petri-net-based hypertext, Trellis, caT, context-aware hypertext

13 A multimedia broker to support accessible and mobile learning through learning objects adaptation



Paola Salomoni, Silvia Mirri, Stefano Ferretti, Marco Roccetti

February 2008 ACM Transactions on Internet Technology (TOIT), Volume 8 Issue 2

Publisher: ACM

Full text available: Pdf (2.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 304, Citation Count: 0

The large diffusion of e-learning technologies represents a great opportunity for underserved segments of population. This is particularly true for people with disabilities for whom digital barriers should be overstepped with the aim of reengaging them ...

Keywords: Accessibility, content transcoding, device profiling, e-learning, mobile-learning, multimedia adaptation, user profiling

14 An export architecture for a multimedia authoring environment



Jan Mikác, Cécile Roisin, Bao Le Duc

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (446.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 24, Citation Count: 0

In this paper, we propose an export architecture that provides a clear separation of multimedia authoring services from publication services. We illustrate this architecture with the LimSee3 authoring tool and several standard publication formats: Timesheets, ...

Keywords: SMIL, export, multimedia document, publishing format, timesheets

15 User experiences on combining location sensitive mobile phone applications and multimedia messaging



Jonna Häkkinen, Jani Mäntyjärvi

October 2004 MUM '04: Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia

Publisher: ACM

Full text available: Pdf (355.30 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 142, Citation Count: 1

Quickly emerging usage of multimedia messages offers new approach for mobile and collaboration between users and services by providing a mature and easy accessible technology. This paper investigated possibilities of location related messaging, where ...

Keywords: context-awareness, location, mobile applications, mobile communication, multimedia messaging

16 Playback of mixed multimedia document



Cyril Concolato, Jean Le Feuvre

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (734.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 17, Citation Count: 0

Many multimedia languages exist today to describe animated, interactive, 2D or 3D graphics and media elements, and each language has its merits. We studied the problems underlying the integration of all these languages in a single player. We present ...

Keywords: BIFS, SVG, VRML, mixed documents, multimedia player

17 Towards a multimedia formatting vocabulary



Jacco van Ossenbruggen, Lynda Hardma, Joost Geurts, Lloyd Rutledge

May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (189.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 51, Citation Count: 3

Time-based, media-centric Web presentations can be described declaratively in the XML world through the development of languages such as SMIL. It is difficult, however, to fully integrate them in a complete document transformation processing chain. In ...

Keywords: Cuypers, document transformation, formatting objects, hyper-media, multimedia

18 Live editing of hypermedia documents



Romualdo Monteiro de Resende Costa, Márcio Ferreira Moreno, Rogério Ferreira Rodrigues, Luiz Fernando Gomes Soares

October 2006 DocEng '06: Proceedings of the 2006 ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (236.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 72, Citation Count: 0

In some hypermedia system applications, like interactive digital TV applications, authoring and presentation of documents may have to be done concomitantly. This is the case of live programs, where not only some contents are not known a priori, but also ...

Keywords: NCL, SBTVD, declarative middleware, ginga, interactive digital TV

19 Adaptation of scalable multimedia documents



Benoît Pellan, Cyril Concolato

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engineering

Publisher: ACM

Full text available: Pdf (350.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 29, Citation Count: 0

Several scalable media codecs have been standardized in recent years to cope with heterogeneous usage conditions and to aim at always providing audio, video and image content in the best possible quality. Today, interactive multimedia presentations are ...

Keywords: document adaptation, document model, multimedia scalability

20 A pluggable service-to-service communication mechanism for home multimedia networks



Jin Nakazawa, Hideyuki Tokuda

December 2002 MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available: Pdf (436.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 0

This paper proposes a pluggable service-to-service (S2S) communication mechanism in a middleware for home networks, called Virtual Networked Appliance (VNA) architecture. In the architecture, service description method and the plug-gable S2S communication ...

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